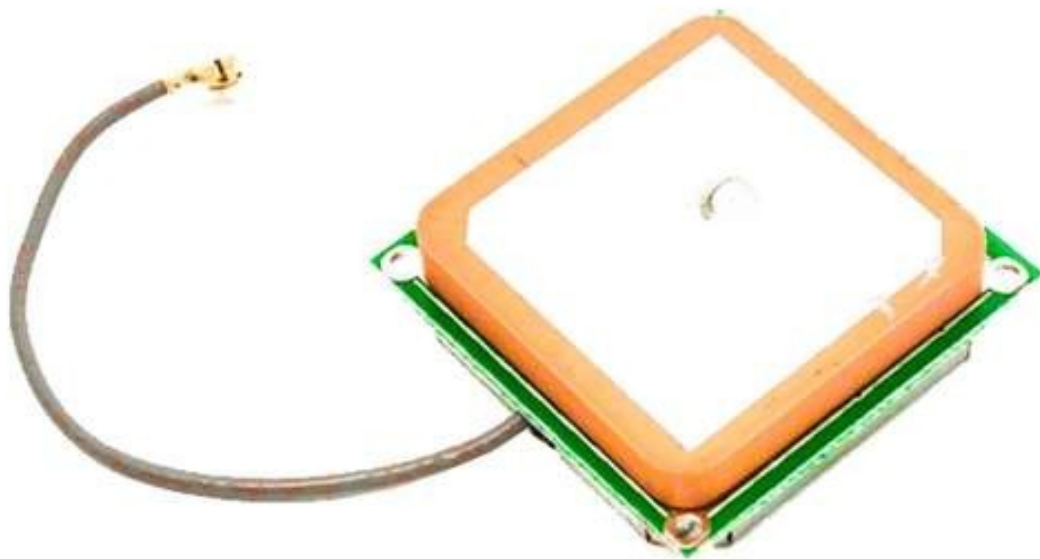


Az-Delivery

High-gain patch antenna for NEO-6M Module



Contents

1. Description.....	3
2. Specifications.....	4
3. Connection with NEO-6M module.....	5

1. Description

The GPS signal is right-hand circular-polarized (RHCP). The most popular antenna type for this purpose is the patch antenna. Patch antennas are flat, have a ceramic and metal body, and are mounted on a metal base plate. They are often cast in housing.

Patch antennas are ideal for situations where the antenna is mounted on a flat surface, e.g. the roof or the dashboard of a car. Patch antennas can show a very high gain. Ceramic patch antennas are very popular because of the low costs and the huge variation of available sizes.

A smaller antenna will present a smaller aperture to collect the signal energy from the sky, resulting in a lower overall gain of the antenna. Amplifying the signal after the antenna will not improve the signal to noise ratio.

The position of the antenna mounting is very crucial for optimal performance of the GPS receiver. When using the patch antenna, it should be oriented parallel to the geographic horizon. The antenna must have a full view of the sky, ensuring a direct line of sight with as many visible satellites as possible.

2. Specifications

- » Antenna type: High-gain patch antenna
- » Antenna sensitivity: -161dBm
- » Dimensions: 25x25x9mm [0.98x0.98x0.35in]

3. Connection with NEO-6M module

Snap-fit this antenna to a small U.FL connector located on the NEO-6M module.

